

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

Claims 1-34 (canceled)

35. (New) An intermediate in the production of a carbonaceous mixture that comprises carbon nanotubes, wherein the carbon nanotubes further comprise at least one of a C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub>, and C<sub>5</sub> radical, and wherein the intermediate comprises a carbonaceous feedstock and at least one compound according to the general formula MXO<sub>n</sub>, wherein M is selected from the group consisting of H, NH<sub>4</sub>, Na, and K, wherein X is selected from the group consisting of Cl, Br, and I, and wherein n is an integer between 1 and 4, inclusive.
36. (New) The intermediate of claim 35 wherein the nanotubes in the carbonaceous mixture are present in an amount of at least 10%.
37. (New) The intermediate of claim 35 wherein the nanotubes have a size of between 1 nm to 10 nm.
38. (New) The intermediate of claim 35 wherein the nanotubes further comprise a carbon radical having a hexagonal ring structure comprising at least one of a C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub>, and C<sub>5</sub> radical.
39. (New) The intermediate of claim 35 wherein the carbonaceous feedstock and the at least one compound are present in an amount of 2:1.
40. (New) The intermediate of claim 35 wherein the carbonaceous feedstock comprises graphite flakes or graphite powder.
41. (New) The intermediate of claim 35 wherein M is H.
42. (New) The intermediate of claim 35 wherein M is NH<sub>4</sub>.
43. (New) The intermediate of claim 35 wherein M is Na.

44. (New) The intermediate of claim 35 wherein M is K.
45. (New) The intermediate of claim 35 wherein X is Cl.
46. (New) The intermediate of claim 35 wherein X is Br.
47. (New) The intermediate of claim 35 wherein X is I.
48. (New) The intermediate of claim 35 wherein n is 1.
49. (New) The intermediate of claim 35 wherein n is 2.
50. (New) The intermediate of claim 35 wherein n is 3.
51. (New) The intermediate of claim 35 wherein n is 4.